



Technical Article

Investigations of a Model for a Circular Bag-Filling Machine for Cement

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The present paper describes the development of a model and the agreement achieved with the full scale version of the Claudius Peters Turbopacker bag-filling machine. It is shown that model studies may be of use in improving certain design parameters.

Modern mechanical engineering cannot be thought of without also thinking of the laws of similitude. As a consequence of the power required nowadays and the resulting size of the machines, developmental investigations are often performed by using models which are easier to handle and considerably less expensive.

This methodology has long since been established in fluid mechanics, heat exchange and in other fields and continually results in a surprisingly good correspondence when one extrapolates to similar, large-scale, versions. If the physical conditions and the model laws are observed this aid enables one to find solutions to many technical problems at comparatively low expense. The present paper describes the development of a model and the agreement achieved with the full scale version for a cement bag-filling machine.